

49. (New)

A radiation curable coating composition comprising:

- (a) an acrylate functional urethane oligomer having a hydrocarbon backbone;
- (b) one or more mono- or polyfunctional diluents;
- (c) a phosphoric acid based adhesion promotor; and optionally
- (d) one or more light sensitive radical generating compounds;

which coating when cured with radiation has a dielectric dissipation factor ^{composition} at 60 Hz at ^{at 60 Hz and} ~~at 150°C~~ of lower than about 0.2.

REMARKS

Upon entry of this Amendment, claims 19 and 27-49 will be pending. Reconsideration of all the rejections in view of the foregoing amendments and the following remarks is respectfully requested.

Preliminarily, Applicants have, pursuant to the Examiner's request, enclosed a copy of the IDS submitted on April 17, 1999, and copies of foreign references cited therein.

Furthermore, the specification has been amended to correct the formula of the phosphate monomer on page 16. With respect to the objection to the graphs in Figures 4(a) and 4(b), Applicants respectfully request the Examiner to further specify the alleged incompleteness therein.

Claims 18-19 stand rejected under 35 U.S.C. §102 as being anticipated by U.S. Patent 4,786,586 to Lee *et al.*, by U.S. Patent 4,572,610 to Krajewski, and by U.S. Patent 5,352,712 to Shustack. In addition, claim 18 stands rejected under 35 U.S.C. §102, or, in the alternative, under 35 U.S.C. §103 as unpatentable over U.S. Patent 4,031,066 to Mori *et al.*, and claim 19 further stands rejected under 35 U.S.C. §103 as being obvious over Mori *et al.* in view of Lee *et al.* Claims 18 and 19 also stand rejected under 35 U.S.C. §103 as unpatentable over Shustack. Applicants respectfully traverse these rejections and request reconsideration and withdrawal of the same for at least the following reasons.

The present invention relates to a radiation curable coating composition comprising an acrylate functional urethane oligomer having a hydrocarbon backbone, one or more mono- or polyfunctional diluents and an adhesion promotor.

The Examiner contends that Lee *et al.* anticipates the present invention by teaching "compositions comprising acrylate-terminated urethane oligomers wherein the hydrocarbon backbone is fully saturated", that Krajewski anticipates the present invention by teaching that "it is known to provide coating compositions comprising a diethylenic diurethane having an halogen-containing essentially saturated polybutadiene backbone", and that the present invention is unpatentable over Shustack since the reference discloses "coating compositions comprising a hydrocarbon polyol based reactively terminated aliphatic urethane oligomer" (See outstanding Office Action, pages 3-5). Furthermore, the Examiner contends that claim 18 is unpatentable over Mori *et al.* since the reference discloses "a flexible polybutadiene resin composition, a solid plasticizer, and a vinyl monomer, wherein the polybutadiene resin can be an acrylated urethane", and claim 19 is rejected by the Examiner as obvious over Mori

et al. in view of Lee *et al.*, since Lee *et al.* would render it "obvious to one skilled in the art to select acrylated urethane polybutadienes from the polybutadiene resins" (See outstanding Office Action, pages 3 and 4).

Applicants respectfully submit that none of the cited references teaches or suggests a radiation-curable composition having an oligomer with a hydrocarbon backbone and an adhesion promoter that achieves the remarkable properties of the present invention, and that, therefore, the present invention is patentable over these references.

With regard to the other art made of record in the present Office Action, Applicants concur with the Examiner that this art is not sufficiently germane to justify its use against the claims, either as originally filed or as presently constituted.

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CONCLUSION

Since all objections and rejections have been overcome, it is respectfully submitted that the present application is in condition for allowance and a Notice to that effect is earnestly solicited. If any questions remain, the Examiner is encouraged to call the undersigned attorney to expedite the prosecution of this application.

Respectfully submitted,

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